

| | | | | | | | | | |
|--|---------------------------|--|--|-------------------------------------|--|--|--|-----------------------------------|--|
| REQUEST FOR QUOTATIONS (THIS IS NOT AN ORDER) | | THIS RFQ <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE | | | PAGE 1 OF 20 | | | | |
| 1. REQUEST NO. N00174-05-Q-0094 | | 2. DATE ISSUED 16-May-2005 | | 3. REQUISITION/PURCHASE REQUEST NO. | | 4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1 | | RATING DO-C9E | |
| 5a. ISSUED BY NAVSEA INDIAN HEAD 101 STRAUSS AVE. INDIAN HEAD MD 20640-5035 | | | | | 6. DELIVER BY (Date) SEE SCHEDULE | | | | |
| | | | | | 7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule) | | | | |
| 5b. FOR INFORMATION CALL: (Name and Telephone no.) (No collect calls) CHRIS IRESON 301/744-6550 | | | | | 9. DESTINATION (Consignee and address, including ZIP Code) NAVSEA INDIAN HEAD RECEIVING OFFICER BUILDING 116 101 STRAUSS AVE INDIAN HEAD MD 20640-5035 TEL: FAX: | | | | |
| 8. TO: NAME AND ADDRESS, INCLUDING ZIP CODE | | | | | | | | | |
| 10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS: (Date) 27-May-2005 | | | | | | | | | |
| IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter. | | | | | | | | | |
| 11. SCHEDULE (Include applicable Federal, State, and local taxes) | | | | | | | | | |
| ITEM NO. (a) | SUPPLIES/ SERVICES (b) | | | QUANTITY (c) | UNIT (d) | UNIT PRICE (e) | | AMOUNT (f) | |
| | SEE SCHEDULE | | | | | | | | |
| 12. DISCOUNT FOR PROMPT PAYMENT | | a. 10 CALENDAR DAYS % | | b. 20 CALENDAR DAYS % | | c. 30 CALENDAR DAYS % | | d. CALENDAR DAYS No. % | |
| NOTE: Additional provisions and representations <input type="checkbox"/> are <input type="checkbox"/> are not attached. | | | | | | | | | |
| 13. NAME AND ADDRESS OF QUOTER (Street, City, County, State, and ZIP Code) | | | | | 14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION | | | 15. DATE OF QUOTATION | |
| | | | | | 16. NAME AND TITLE OF SIGNER (Type or print) | | | TELEPHONE NO. (Include area code) | |

Section B - Supplies or Services and Prices

| ITEM NO | SUPPLIES/SERVICES | QUANTITY | UNIT | UNIT PRICE | AMOUNT |
|---------|--|----------|------|------------|--------|
| 0001 | ELBA Solvent ELBA Solvent In accordance with drawing #233AS250 Rev. J and MIL-A-3167A(SO), Note Number 14: The Adhesive, Fine No. 3, shall consist of a Homogeneous Mixture by weight of 34.6 to 39.0% Ethyl Lactate with the balance normal Butyl Acetate. Certification of Analysis is required. 435 pound containers | 48 | Drum | | |

NET AMT

Section F - Deliveries or Performance

DELIVERY INFORMATION

| CLIN | DELIVERY DATE | QUANTITY | SHIP TO ADDRESS | UIC |
|------|---------------|----------|---|--------|
| 0001 | 30 dys. ADC | 48 | NAVSEA INDIAN HEAD RECEIVING OFFICER BUILDING 116 101 STRAUSS AVE INDIAN HEAD MD 20640-5035 FOB: Destination | N00174 |

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

“Common parent,” as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

“Taxpayer Identification Number (TIN),” as used in this provision, means the number required by the Internal Revenue Service (IRS) to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325(d), reporting requirements of 26 U.S.C. 6041, 6041A, and 6050M, and implementing regulations issued by the IRS. If the resulting contract is subject to the payment reporting requirements described in Federal Acquisition Regulation (FAR) 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments otherwise due under the contract.

(c) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 U.S.C. 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(d) Taxpayer Identification Number (TIN).

___ TIN: _____

___ TIN has been applied for.

___ TIN is not required because:

___ Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the United States and does not have an office or place of business or a fiscal paying agent in the United States;

___ Offeror is an agency or instrumentality of a foreign government;

___ Offeror is an agency or instrumentality of the Federal Government.

(e) Type of organization.

___ Sole proprietorship;

___ Partnership;

___ Corporate entity (not tax-exempt);

___ Corporate entity (tax-exempt);

___ Government entity (Federal, State, or local);

___ Foreign government;

___ International organization per 26 CFR 1.6049-4;

___ Other _____

(f) Common parent.

___ Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this provision.

___ Name and TIN of common parent:

Name _____

TIN _____

(End of provision)

52.213-4 TERMS AND CONDITIONS--SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS)
(JAN 2005)

(a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-3, Convict Labor (June 2003) (E.O. 11755).

(ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).

(iii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).

(iv) 52.225-13, Restrictions on Certain Foreign Purchases (Dec 2003) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).

(v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).

(vi) 52.233-4, Applicable Law for Breach of Contract Claim (OCT 2004) (Pub. L. 108-77, 108-78).

(2) Listed below are additional clauses that apply:

(i) 52.232-1, Payments (Apr 1984).

(ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).

(iii) 52.232-11, Extras (Apr 1984).

(iv) 52.232-25, Prompt Payment (Oct 2003).

(v) 52.233-1, Disputes (Jul 2002).

(vi) 52.244-6, Subcontracts for Commercial Items (Jul 2004).

(vii) 52.253-1, Computer Generated Forms (Jan 1991).

(b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:

(1) The clauses listed below implement provisions of law or Executive order:

(i) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Jun 2004) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)

(ii) 52.222-20, Walsh-Healey Public Contracts Act (DEC 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).

(iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).

(iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793) (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.).

(v) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts over \$25,000).

(vi) 52.222-41, Service Contract Act, As Amended (May 1989) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands.).

(vii) 52.223-5, Pollution Prevention and Right-to-Know Information (Aug 2003) (E.O. 13148) (Applies to services performed on Federal facilities).

(viii) 52.225-1, Buy American Act--Supplies (June 2003) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the **acquisition--**

(A) Is set aside for small business concerns; or

(B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)

(ix) 52.232-33, Payment by Electronic Funds Transfer--Central Contractor Registration (May 1999). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)

(x) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (Oct 2003). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)

(xi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241). (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at 47.504(d).)

(2) Listed below are additional clauses that may apply:

(i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JAN 2005) (Applies to contracts over \$25,000).

(ii) 52.211-17, Delivery of Excess Quantities (SEPT 1989) (Applies to fixed-price supplies).

(iii) 52.247-29, F.o.b. Origin (JUN 1988) (Applies to supplies if delivery is f.o.b. origin).

(iv) 52.247-34, F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).

(c) FAR 52.252-2, Clauses Incorporated by Reference (FEB 1998). This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

(Insert one or more Internet addresses)

(d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights--

(1) Within a reasonable period of time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination

for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

52.219-1 SMALL BUSINESS PROGRAM REPRESENTATIONS (MAY 2004) - ALTERNATE I (APR 2002)

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is () (insert NAICS code).

(2) The small business size standard is () (insert size standard).

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) Representations. (1) The offeror represents as part of its offer that it () is, () is not a small business concern.

(2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it () is, () is not a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a women-owned small business concern.

(4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a veteran-owned small business concern.

(5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it () is, () is not a service-disabled veteran-owned small business concern.

(6) [Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.] The offeror represents, as part of its offer, that--

(i) It () is, () is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and

(ii) It () is, () is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:_____.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.

(7) (Complete if offeror represented itself as disadvantaged in paragraph (b)(2) of this provision.) The offeror shall check the category in which its ownership falls:

_____ Black American.

_____ Hispanic American.

_____ Native American (American Indians, Eskimos, Aleuts, or Native Hawaiians).

_____ Asian-Pacific American (persons with origins from Burma, Thailand, Malaysia, Indonesia, Singapore, Brunei, Japan, China, Taiwan, Laos, Cambodia (Kampuchea), Vietnam, Korea, The Philippines, U.S. Trust Territory of the Pacific Islands (Republic of Palau), Republic of the Marshall Islands, Federated States of Micronesia, the Commonwealth of the Northern Mariana Islands, Guam, Samoa, Macao, Hong Kong, Fiji, Tonga, Kiribati, Tuvalu, or Nauru).

_____ Subcontinent Asian (Asian-Indian) American (persons with origins from India, Pakistan, Bangladesh, Sri Lanka, Bhutan, the Maldives Islands, or Nepal).

_____ Individual/concern, other than one of the preceding.

(c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

(i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and

(ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

(2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern--

(1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and

(2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern --

(1) That is at least 51 percent owned by one or more women or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; or

(2) Whose management and daily business operations are controlled by one or more women.

(d) Notice.

(1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.

(2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall--

(i) Be punished by imposition of fine, imprisonment, or both;

(ii) Be subject to administrative remedies, including suspension and debarment; and

(iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

52.219-6 NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE (JUN 2003)

(a) Definition.

"Small business concern," as used in this clause, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the size standards in this solicitation.

(b) General. (1) Offers are solicited only from small business concerns. Offers received from concerns that are not small business concerns shall be considered nonresponsive and will be rejected.

(2) Any award resulting from this solicitation will be made to a small business concern.

(c) Agreement. A small business concern submitting an offer in its own name shall furnish, in performing the contract, only end items manufactured or produced by small business concerns in the United States or its outlying areas. If this procurement is processed under simplified **acquisition** procedures and the total amount of this contract does not exceed \$25,000, a small business concern may furnish the product of any domestic firm. This paragraph does not apply to construction or service contracts.

(End of clause)

52.222-22 PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (FEB 1999)

The offeror represents that --

(a) () It has, () has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

(b) () It has, () has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

(End of provision)

52.222-25 AFFIRMATIVE ACTION COMPLIANCE (APR 1984)

The offeror represents that

(a) [] it has developed and has on file, [] has not developed and does not have on file, at each establishment, affirmative action programs required by the rules and regulations of the Secretary of Labor (41 CFR 60-1 and 60-2), or

(b) [] has not previously had contracts subject to the written affirmative action programs requirement of the rules and regulations of the Secretary of Labor.

(End of provision)

52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997)

(a) "Hazardous material", as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

| Material | Identification No. |
|-----------------------------|--------------------|
| (If none, insert "None") | |
| _____ | |
| _____ | |
| _____ | |

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:

(1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--

(i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

(ii) Obtain medical treatment for those affected by the material; and

(iii) Have others use, duplicate, and disclose the data for the Government for these purposes.

(2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

(3) The Government is not precluded from using similar or identical data acquired from other sources.

(End of clause)

52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER—CENTRAL CONTRACTOR REGISTRATION (OCT 2003)

(a) Method of payment. (1) All payments by the Government under this contract shall be made by electronic funds transfer (EFT), except as provided in paragraph (a)(2) of this clause. As used in this clause, the term "EFT" refers to the funds transfer and may also include the payment information transfer.

(2) In the event the Government is unable to release one or more payments by EFT, the Contractor agrees to either--

(i) Accept payment by check or some other mutually agreeable method of payment; or

(ii) Request the Government to extend the payment due date until such time as the Government can make payment by EFT (but see paragraph (d) of this clause).

(b) Contractor's EFT information. The Government shall make payment to the Contractor using the EFT information contained in the Central Contractor Registration (CCR) database. In the event that the EFT information changes, the Contractor shall be responsible for providing the updated information to the CCR database.

(c) Mechanisms for EFT payment. The Government may make payment by EFT through either the Automated Clearing House (ACH) network, subject to the rules of the National Automated Clearing House Association, or the Fedwire Transfer System. The rules governing Federal payments through the ACH are contained in 31 CFR part 210.

(d) Suspension of payment. If the Contractor's EFT information in the CCR database is incorrect, then the Government need not make payment to the Contractor under this contract until correct EFT information is entered into the CCR database; and any invoice or contract financing request shall be deemed not to be a proper invoice for the purpose of prompt payment under this contract. The prompt payment terms of the contract regarding notice of an improper invoice and delays in accrual of interest penalties apply.

(e) Liability for uncompleted or erroneous transfers. (1) If an uncompleted or erroneous transfer occurs because the Government used the Contractor's EFT information incorrectly, the Government remains responsible for--

(i) Making a correct payment;

(ii) Paying any prompt payment penalty due; and

(iii) Recovering any erroneously directed funds.

(2) If an uncompleted or erroneous transfer occurs because the Contractor's EFT information was incorrect, or was revised within 30 days of Government release of the EFT payment transaction instruction to the Federal Reserve System, and--

(i) If the funds are no longer under the control of the payment office, the Government is deemed to have made payment and the Contractor is responsible for recovery of any erroneously directed funds; or

(ii) If the funds remain under the control of the payment office, the Government shall not make payment, and the provisions of paragraph (d) of this clause shall apply.

(f) EFT and prompt payment. A payment shall be deemed to have been made in a timely manner in accordance with the prompt payment terms of this contract if, in the EFT payment transaction instruction released to the Federal Reserve System, the date specified for settlement of the payment is on or before the prompt payment due date, provided the specified payment date is a valid date under the rules of the Federal Reserve System.

(g) EFT and assignment of claims. If the Contractor assigns the proceeds of this contract as provided for in the assignment of claims terms of this contract, the Contractor shall require as a condition of any such assignment, that the assignee shall register separately in the CCR database and shall be paid by EFT in accordance with the terms of this clause. Notwithstanding any other requirement of this contract, payment to an ultimate recipient other than the Contractor, or a financial institution properly recognized under an assignment of claims pursuant to subpart 32.8, is not permitted. In all respects, the requirements of this clause shall apply to the assignee as if it were the Contractor. EFT information that shows the ultimate recipient of the transfer to be other than the Contractor, in the absence of a proper assignment of claims acceptable to the Government, is incorrect EFT information within the meaning of paragraph (d) of this clause.

(h) Liability for change of EFT information by financial agent. The Government is not liable for errors resulting from changes to EFT information made by the Contractor's financial agent.

(i) Payment information. The payment or disbursing office shall forward to the Contractor available payment information that is suitable for transmission as of the date of release of the EFT instruction to the Federal Reserve System. The Government may request the Contractor to designate a desired format and method(s) for delivery of payment information from a list of formats and methods the payment office is capable of executing. However, the Government does not guarantee that any particular format or method of delivery is available at any particular payment office and retains the latitude to use the format and delivery method most convenient to the Government. If the Government makes payment by check in accordance with paragraph (a) of this clause, the Government shall mail the payment information to the remittance address contained in the CCR database.

(End of Clause)

52.232-36 PAYMENT BY THIRD PARTY (MAY 1999)

(a) General. The Contractor agrees to accept payments due under this contract, through payment by a third party in lieu of payment directly from the Government, in accordance with the terms of this clause. The third party and, if applicable, the particular Governmentwide commercial purchase card to be used are identified elsewhere in this contract.

(b) Contractor payment request. In accordance with those clauses of this contract that authorize the Contractor to submit invoices, contract financing requests, other payment requests, or as provided in other clauses providing for payment to the Contractor, the Contractor shall make such payment requests through a charge to the Government account with the third party, at the time and for the amount due in accordance with the terms of this contract.

(c) Payment. The Contractor and the third party shall agree that payments due under this contract shall be made upon submittal of payment requests to the third party in accordance with the terms and conditions of an agreement between the Contractor, the Contractor's financial agent (if any), and the third party and its agents (if any). No payment shall be due the Contractor until such agreement is made. Payments made or due by the third party under this clause are not payments made by the Government and are not subject to the Prompt Payment Act or any implementation thereof in this contract.

(d) Documentation. Documentation of each charge against the Government's account shall be provided to the Contracting Officer upon request.

(e) Assignment of claims. Notwithstanding any other provision of this contract, if any payment is made under this clause, then no payment under this contract shall be assigned under the provisions of the assignment of claims terms of this contract or the Assignment of Claims Act of 1940, as amended, 31 U.S.C. 3727, 41 U.S.C. 15.

(f) Other payment terms. The other payment terms of this contract shall govern the content and submission of payment requests. If any clause requires information or documents in or with the payment request, that is not provided in the third party agreement referenced in paragraph (c) of this clause, the Contractor shall obtain instructions from the Contracting Officer before submitting such a payment request.

(End of clause)

52.247-45 F.O.B. ORIGIN AND/OR F.O.B. DESTINATION EVALUATION (APR 1984)

Offers are invited on the basis of both f.o.b. origin and f.o.b. destination, and the Government will award on the basis the Contracting Officer determines to be most advantageous to the Government. An offer on the basis of f.o.b. origin only or f.o.b. destination only is acceptable, but will be evaluated only on the basis submitted.

(End of provision)

252.204-7001 COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE REPORTING (AUG 1999)

(a) The offeror is requested to enter its CAGE code on its offer in the block with its name and address. The CAGE code entered must be for that name and address. Enter "CAGE" before the number.

(b) If the offeror does not have a CAGE code, it may ask the Contracting Officer to request one from the Defense Logistics Information Service (DLIS). The Contracting Officer will--

(1) Ask the Contractor to complete section B of a DD Form 2051, Request for Assignment of a Commercial and Government Entity (CAGE) Code;

(2) Complete section A and forward the form to DLIS; and

(3) Notify the Contractor of its assigned CAGE code.

(c) Do not delay submission of the offer pending receipt of a CAGE code.

(End of provision)

252.204-7004 REQUIRED CENTRAL CONTRACTOR REGISTRATION (52.204-7) ALTERNATE A (NOV 2003)

(a) Definitions. As used in this clause--

“Central Contractor Registration (CCR) database” means the primary Government repository for contractor information required for the conduct of business with the Government.

“Commercial and Government Entity (CAGE) code” means--

(1) A code assigned by the Defense Logistics Information Service (DLIS) to identify a commercial or Government entity; or

(2) A code assigned by a member of the North Atlantic Treaty Organization that DLIS records and maintains in the CAGE master file. This type of code is known as an “NCAGE code.”

“Data Universal Numbering System (DUNS) number” means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

“Data Universal Numbering System +4 (DUNS+4) number” means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11 of the Federal Acquisition Regulation) for the same parent concern.

“Registered in the CCR database” means that--

(1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database;

(2) The Contractor's CAGE code is in the CCR database; and

(3) The Government has validated all mandatory data fields and has marked the records “Active.”

(b)(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee shall be registered in the CCR database prior to award, during performance, and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement resulting from this solicitation.

(2) The offeror shall enter, in the block with its name and address on the cover page of its offer, the annotation "DUNS" or "DUNS +4" followed by the DUNS or DUNS +4 number that identifies the offeror's name and address exactly as stated in the offer. The DUNS number will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.

(1) An offeror may obtain a DUNS number-

(i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <http://www.dnb.com>; or

(ii) If located outside the United States, by contacting the local Dun and Bradstreet office.

(2) The offeror should be prepared to provide the following information:

(i) Company legal business.

(ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.

(iii) Company Physical Street Address, City, State, and Zip Code.

(iv) Company Mailing Address, City, State and Zip Code (if separate from physical).

(v) Company Telephone Number.

(vi) Date the company was started.

(vii) Number of employees at your location.

(viii) Chief executive officer/key manager.

(ix) Line of business (industry).

(x) Company Headquarters name and address (reporting relationship within your entity).

(d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(g)

(1)

(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to (A) change the name in the CCR database; (B) comply with the requirements of Subpart 42.12 of the FAR; and (C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractor's CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(h) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the internet at <http://www.ccr.gov> or by calling 1-888-227-2423, or 269-961-5757.

(End of clause)

252.223-7001 HAZARD WARNING LABELS (DEC 1991)

(a) "Hazardous material," as used in this clause, is defined in the Hazardous Material Identification and Material Safety Data clause of this contract.

(b) The Contractor shall label the item package (unit container) of any hazardous material to be delivered under this contract in accordance with the Hazard Communication Standard (29 CFR 1910.1200 et seq). The Standard requires that the hazard warning label conform to the requirements of the standard unless the material is otherwise subject to the labeling requirements of one of the following statutes:

(1) Federal Insecticide, Fungicide and Rodenticide Act;

(2) Federal Food, Drug and Cosmetics Act;

(3) Consumer Product Safety Act;

(4) Federal Hazardous Substances Act; or

(5) Federal Alcohol Administration Act.

(c) The Offeror shall list which hazardous material listed in the Hazardous Material Identification and Material Safety Data clause of this contract will be labeled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

MATERIAL (If None, Insert "None.")

ACT

(d) The apparently successful Offeror agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Offeror shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.

(e) The Contractor shall also comply with MIL-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

(End of clause)

IHD 30 - HAZARDOUS MATERIALS (NAVSEA/IHD) FEB 2000

(a) Packaging, Packing, Marking and Labeling Hazardous materials to be shipped by any mode or combination of transportation modes shall be prepared (properly classed, described, packaged, marked, labeled, transport vehicle placarded, etc.) for shipment in accordance with MIL and all applicable government and carrier regulations in effect at time of shipment.

(b) In the event of a conflict between specific requirements in the contract or order and existing applicable regulations, the regulations take precedence. Under no circumstances shall the contractor knowingly use materials, markings or procedures which are not in accordance with laws and regulations applicable to the mode of transportation employed.

TYPE OF SHIPMENT REGULATIONS

APPLICABLE

- | | |
|-------------------------------|---------|
| 1. Domestic | A |
| 2. Domestic Air Commercial | A, B, C |
| 3. Domestic Air Military | A, F |
| *4. Export Surface | A, E, G |
| *5. Export Air Commercial | A, D, G |
| *6. Export Air Military (MAC) | F, G |

LIST OF REGULATIONS

- A. Code of Federal Regulations Title: 49 Transportation Parts 100
- B. Official Air Transport Restricted Articles Tariff No. 6C.A.B. 82
- C. Official Air Transport Restricted Articles Circular No. 6
- D. International Air Transport Association Restricted Articles Regulations
- E. International Maritime Dangerous Goods Code
- F. Air Force Joint Manual (AFJM) 24Preparation of Hazardous Materials for Military Air Shipment
- *G. Export shipments are also subject to the domestic regulations indicated to the port of embarkation.

IHD 88 - CERTIFICATE OF ANALYSIS (NAVSEA/IHD) FEB 2000

(a) A certificate of analysis/test showing that the material has been sampled and/or tested and found to be within the minimum requirements of the specification/drawing/contract shall be prepared. The certificate shall be () maintained by the contractor for a minimum of one (1) year from the completion of the order/contract or (X) forwarded to this activity; one (1) copy to accompany the shipment (in the packing list envelope) and one (1) copy mailed to arrive at time of receipt of the shipment (mark the certificate to the attention of: Code _____).

(b) Each certificate must be traceable to the material covered by the certificate. The certificate shall state, above the signature of a legally authorized representative of the company the following:

This certification concerns a matter within the jurisdiction of an agency of the United States and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

(c) Certificate for shipments of bulk chemicals shall state contract number, drawing or specification number, lot number, rail car number if shipped by rail or trailer number if by truck, and the date of shipment.

(d) Any demurrage accrued as a result of detaining commercial carriers because of nonreceipt of the certificate shall be the responsibility of the Contractor.

(e) Failure to provide certification at the time of shipment may result in material being rejected and returned at the contractor's expense.

NOTICE OF INACTIVATION
FOR NEW DESIGN

METRIC

MIL-A-3167A(OS)
NOTICE 1
6 November 1991

MILITARY SPECIFICATION

ADHESIVE (FOR PLASTIC INHIBITORS)

This notice should be filed in front of MIL-A-3167A(OS), dated 5 January 1976.

MIL-A-3167A(OS) is inactive for new design and is no longer used by the Navy except for replacement purposes.

Preparing activity:
Navy - OS
Project No. 8040-N171

AMSC N/A

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

FSC 8040

MIL-A-3167A(OS)
5 January 1976
SUPERSEDING
MIL-A-3167
31 March 1950

MILITARY SPECIFICATION

ADHESIVES (FOR PLASTIC INHIBITORS)

This specification is approved for use by
all departments and agencies of the Department
of Defense.

1. SCOPE

1.1 Scope. This specification covers adhesives for use with ethyl cellulose or cellulose acetate molded plastic inhibitors. (See 5.1)

1.2 Classification. The adhesives covered by this specification shall be furnished in the following types and classes, as specified (see 6.2):

Type I - - Cellulose Nitrate
Class 1
Class 2

Type II - - Cellulose Acetate
Class 1
Class 2
Class 3
Class 4

Type III - - Solvent Adhesive
Class 1
Class 2

2. APPLICABLE DOCUMENTS

- * 2.1 The following documents of the issues in effect on date of invitation for bids or request for proposals form a part of this specification to the extent specified herein. In the event of conflict between this specification and any document referenced herein, requirements of this specification shall apply.

THIS DOCUMENT CONTAINS 11 PAGES.

FSC 8040

MIL-A-3167A(08)

SPECIFICATIONS

Federal

| | | |
|---|-----------|---|
| | 0-A-51 | Acetone, Technical |
| * | 0-D-306 | Diacetone Alcohol, Technical (Acetone-free) |
| * | TT-B-338 | Butyl Acetate, Normal (For Use in Organic Coatings) |
| * | PPP-B-585 | Box, Wood, Wirebound |
| * | PPP-B-621 | Box, Wood, Nailed and Lock-Corner |
| * | PPP-B-636 | Box, Shipping, Fiberboard |

Military

| | | |
|---|------------|--|
| * | MIL-C-124 | Containers (Cans, Pails, and Drums) Metal (For Other Than Subsistence Items) |
| * | MIL-N-244 | Nitrocellulose |
| | MIL-I-3166 | Inhibitors, Web and End (Plastic) |

STANDARDS

Federal

| | | |
|---|-------------|--|
| * | FED-STD-141 | Paint, Varnish, Lacquer and Related Materials, Methods of Inspection, Sampling and Testing |
|---|-------------|--|

Military

| | | |
|--|-------------|----------------------------------|
| | MIL-STD-129 | Marking for Shipment and Storage |
|--|-------------|----------------------------------|

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

- * 2.2 Other publication. The following document forms a part of this specification to the extent specified herein. Unless otherwise indicated the issue in effect on date of invitation for bids or request for proposals shall apply. In the event of conflict between this specification and any document listed herein, requirements of this specification shall apply.

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American Society for Testing and Materials (ASTM)

D 1744

Water in Liquid Petroleum Products
by Karl Fischer Reagent, Test for

(Application for copies should be addressed to the American Society for Testing and Materials, 1901 Race Street, Philadelphia, PA 19103.)

Code of Federal Regulations

49 CFR 170-190

Department of Transportation, Hazardous
Materials Regulations

(Copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC. 20402.)

Consolidated Classification Committee

Consolidation Freight Classification Rule 41

(Application for copies should be addressed to the Consolidated Classification Committee, 202 Chicago Union Station, Chicago, IL 60606.)

3. REQUIREMENTS

3.1 Materials.3.1.1 Raw Materials. The raw materials for use in adhesives covered by this specification shall be as follows:3.1.1.1 Cellulose nitrate. The cellulose nitrate shall have a nitrogen content of 12 ± 0.2 percent. (See 4.3.7.)3.1.1.2 Ethyl lactate. The ethyl lactate shall be a water-white liquid free from suspended matter conforming to the following requirements:

Specific gravity at 25°/25°C 1.020 to 1.036.

Nonvolatile, maximum: 0.0059 gram/ml.

Water: No turbidity when one volume is mixed with 19 volumes of 60°B gasoline at 20°C.

Distillation range:

Below 102°C--None.

Below 139°C--Not more than 10 percent.

Below 155°C--Not less than 90 percent.

Above 173°C--None (4.3.5).

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Acidity: Free Acid as lactic, not more than 0.08 percent. (See 4.3.8)

Purity: Ester content as ethyl lactate not less than 96 percent (See 4.3.9)

- * 3.1.1.2.1 Ethyl Lactate (type III, class 2 only.) The ethyl lactate shall be water-white liquid free from suspended matter conforming to the following requirements:

| | |
|---|---|
| Ethyl lactate, % by wt | 98.0 (min.) |
| Specific gravity, 25°/25°C | 1.030 to 1.035 |
| Distillation range | 125.0° to 170.0°C |
| Moisture | Miscible without turbidity with 19 volumes of 60°C API gasoline at 20°C |
| Acidity, calculated as lactic acid, % by wt. | 0.08 (max.) |
| Odor | Nonresidual |
| Nonvolatile matter | 0.02 gram/100 ml. (max.) |
| Suspended matter | Substantially none |

- * 3.1.1.3 Butyl acetate. The butyl acetate shall conform to TT-B-838.

3.1.1.4 Methyl phthalylethyl glycolate. Methyl phthalyl ethyl glycolate shall be water-white liquid, free from suspended matter, conforming to the following requirements:

Specific gravity at 25°/25°C: 1.220 ± 0.005.

Boiling Point: 189°C at 5 mm.

3.1.1.5 Cellulose acetate. The cellulose acetate shall have an apparent acetyl content of 35.8 to 39.4 percent. (See 4.3.10)

- * 3.1.1.6 Diacetone alcohol. The diacetone alcohol shall conform to the requirements of O-B-306.

3.1.1.7 Acetone. The acetone shall conform to O-A-51.

3.1.1.8 Ethylene glycol monomethyl ether. Ethylene glycol monomethyl ether shall be a water-white liquid, free from suspended matter, conforming to the following requirements:

Specific gravity at 20°/20°C: 0.961 to 0.966.

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Table 1
COMPOSITION OF FINISHED MATERIAL

| Ingredient | Percent by weight | | | | | | | |
|---------------------------------------|-------------------|---------|---------|---------|---------|----------|---------|-------------------|
| | Type I | | Type II | | | Type III | | |
| | Class 1 | Class 2 | Class 1 | Class 2 | Class 3 | Class 4 | Class 1 | Class 2 |
| Cellulose nitrate (dry solids)---- | 2.5 | 3.3 | - | - | - | - | - | - |
| Ethyl lactate---- | 85.0 | 45.5 | - | 39.0 | - | - | 50.0 | 36.8 ¹ |
| Butyl acetate---- | 62.35 | 51.0 | - | 39.0 | - | - | 40.0 | 63.2 ¹ |
| Methyl phthalyl (ethyl glycolate) | .15 | .2 | - | - | - | - | - | - |
| Cellulose acetate (dry solids)---- | - | - | 5.0 | 2.0 | - | - | - | - |
| Diacetone alcohol | - | - | 95.0 | - | - | - | - | - |
| Acetone---- | - | - | - | - | 100 | - | - | - |
| Ethylene glycol mono-methyl ether | - | - | - | - | - | 60 | - | - |
| Ethylene glycol mono-ethyl ether | - | - | - | - | - | 40 | - | - |

¹ Variation of 2.2% permitted.

Table II
CHARACTERISTICS OF FINISHED MATERIAL

| Type | Class | Nonvolatile (percent) | Viscosity at 25° C (centipoises) | Specific gravity 25°/25° C |
|----------|------------------|--------------------------|-------------------------------------|-------------------------------|
| I----- | 1 | 2.65 ± 0.10 | 220 to 300 | 0.920 to 0.940 |
| I----- | 2 | 3.50 ± 0.10 | 700 to 1,000 | 0.945 to 0.960 |
| II----- | 1 | 5.00 ± 0.10 | 400 to 500 | 0.945 to 0.955 |
| II----- | 2 | 2.00 ± 0.10 | 1.1 to 0.9 | 0.955 to 0.975 |
| II----- | 4 ^{1,2} | None | - | 0.947 to 0.953 |
| III----- | 1 | None | 0.8 to 0.9 | 0.955 to 0.975 |
| III----- | 2 ³ | | | |

¹Distillation range shall be as follows:

| Percent by volume | °C (corrected for barometer) |
|-------------------|------------------------------|
| 5 | 124.8 ± 0.5 |
| 10 | 125.8 ± 0.7 |
| 50 | 127.5 ± 0.5 |
| 90 | 129.3 ± 1.0 |

²The percent moisture shall not exceed 1 percent by weight. (See 4.3.6.)
³No test required on finished material.

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4.2 Sampling.

4.2.1 Size of lots. For the purpose of sampling, a lot shall consist of a single type and class of adhesive produced as a unit of manufacture, and offered for inspection at one time.

4.2.2 Sampling procedure. From each lot of adhesive, a 1-quart sample shall be taken in accordance with FED-STD-141 for test.

4.3 Tests. Tests on the adhesive except for the acetone shall be conducted in accordance with methods described in the following paragraphs. For Navy purchases, the tests shall be conducted at a Government laboratory unless otherwise specified.

4.3.1 Tests for components. Unless otherwise covered by applicable test methods in this specification the properties of the adhesive components shall be determined by standard methods.

4.3.2 Specific gravity. Specific gravity shall be determined in accordance with method 401 of FED-STD-141 except that the determination shall be made at the temperatures specified in 3.1.1 and 3.1.2 for the respective components and adhesives.

4.3.3 Viscosity. Viscosity shall be determined by means of a suitable viscosimeter with readings converted to centipoises.

4.3.4 Solids content (nonvolatile). Solids content shall be determined in accordance with method 404.1 of FED-STD-141.

* 4.3.5 Distillation range. Distillation range shall be determined in accordance with method 430.1 of FED-STD-141 except that a thermometer of the proper range and graduated to 1/5°C shall be used.

* 4.3.6 Moisture. Moisture shall be determined by the Karl Fischer method in accordance with ASTM D 1744.

* 4.3.7 Nitrogen. Nitrogen shall be determined in accordance with MIL-N-244.

* 4.3.8 Acidity. Acidity shall be determined in accordance with method 525.2 of FED-STD-141.

* 4.3.9 Ester content. Ester content shall be determined in accordance with method 517.1 of FED-STD-141.

4.3.10 Acetyl content (apparent). The sample to be tested shall be dried to constant weight (about 2 hours) at 100° to 105°C and cooled in a desiccator. Place duplicate 1-gram portions of the sample accurately weighed in Erlenmeyer flasks, add 40 ml of ethyl alcohol (95 percent) to each flask and stopper the flasks. Heat for 30 minutes at about 55°C on a water bath

to swell the fibers. Add about 40 ml of 0.5 N sodium hydroxide accurately measured from a burette to each flask, stopper loosely, and heat at about 55°C for approximately 15 minutes. Tightly stopper and allow the flasks to stand for 48 hours. Back titrate the excess sodium hydroxide with standard 0.5N hydrochloric acid using phenolphthalein as an indicator. After reaching a temporary endpoint allow the flasks to stand at least 30 minutes so the sodium hydroxide can diffuse from the fibers. Add 0.5 N hydrochloric acid at intervals until all free sodium hydroxide has been neutralized. Care must be used at this point or poor check values will be obtained. Calculate the apparent acetyl content as follows:

$$\text{Apparent acetyl content} = \frac{VN - V_1N_1}{W} \times 4.305$$

where

V=millimeters of sodium hydroxide solution used

N=normality of sodium hydroxide solution

V₁=millimeters of hydrochloric acid required for titration of the sample

N₁=normality of the hydrochloric acid

W=grams of sample used

If duplicate determinations differ by more than 0.5 percent apparent acetyl the analysis shall be repeated.

4.3.11 Appearance (bubble formation). Four web inhibitors conforming to type I of MIL-I-3166 shall be adhered to the webs of cruciform-shape double-base powder and thereafter conditioned at room temperature (77°±2°F) for 24 hours. The assembly shall then be stored for 72 hours in an oven maintained at 100°±10°F, removed from the oven, and cooled to room temperature. Examination shall reveal no bubble formation nor unbonded edges.

- * 4.3.12 Adhesion. Using the samples prepared and conditioned in accordance with 4.3.11 and after examination for bubbles, the molded web inhibitor shall be pulled from the webs of the powder grain with a suitable pulling tool. Powder shall be pulled loose with the inhibitor. A similar sample shall be prepared and conditioned in accordance with 4.3.11 using a previously tested and approved adhesive for comparison. The performance of the adhesive as compared with the previously tested and approved adhesive shall be the means for determining conformance to this adhesion requirement.

4.4 Rejections. Lots of adhesives which are submitted for the requirements of this specification and do not pass the tests in 4.3 shall be rejected.

4.5 Resubmission. A lot that has been rejected under the provisions of this specification may be resubmitted for inspection and testing provided the contractor (after being informed of the reasons for rejection) submits a signed statement that he has corrected the deficiencies noted.

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5. PREPARATION FOR DELIVERY

* 5.1 Packaging.

- * 5.1.1 Level C. Adhesives shall be furnished in 5-gallon rectangular cans or in 55-gallon drums as specified in the contract or order.

- * 5.1.1.1 Five-gallon cans shall conform to the requirements for type I of MIL-P-124.

- * 5.1.1.2 Fifty-five-gallon drums shall conform to the requirements of specification 17E of 49 CFR 170-190.

5.2 Packing.

- * 5.2.1 Level A. Two 5-gallon cans shall be packed in a nailed wood box or wirebound box conforming to the requirements of specification PPP-B-621 or PPP-B-585, respectively.

5.2.1.1 Fifty-five-gallon drums will require no further packing.

- * 5.2.2 Level C. Two 5-gallon cans shall be packed in a nailed wood box or wirebound box conforming to the requirements of specification PPP-B-621 or PPP-B-585, respectively; or one 5-gallon can shall be packed in corrugated fiber box or solid fiber box conforming to the requirements of PPP-B-636. Fiberboard boxes shall comply with the latest edition of Consolidated Freight Classification Rule 41, section 6. No strapping will be required.

5.2.2.1 Fifty-five-gallon drums will require no further packing.

- * 5.3 Marking. In addition to any special marking required by the contract or order, shipping containers shall be marked in accordance with MIL-STD-129.

6. NOTES

6.1 Intended use. The adhesives covered by this specification are intended for use in adhering web and end plastic inhibitors to cruciform-shape double-base powder grains.

- * 6.1.1 Type I. Type I, classes 1 and 2, adhesives are for use in adhering ethyl cellulose inhibitors as specified in MIL-I-3166. Class 2 may be diluted with up to 30 percent by weight of butyl acetate, conforming to TT-B-838.

6.1.2 Type II. Type II, classes 1, 2, 3, and 4 adhesives, are for use in adhering cellulose acetate inhibitors as specified in MIL-I-3166. Class I may be diluted up to 20 percent by weight with acetone conforming to O-A-51.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH DDG-STD-100.
2. DIMENSIONS APPLY ONLY WHEN TEMPERATURE OF INHIBITED JOINT IS 15 TO 25°C AND FOR ONLY 30 DAYS AFTER APPLYING.
3. THE PERIPHERAL INHIBITOR SHALL CONSIST OF THREE OVERLAPPED LAYERS OF INHIBITING TAPE, FTD NO.2, BOND TO THE GRAIN AND TO THE CHD INHIBITORS WITH ADHESIVE, FMD NO.1.
4. THE LAYERS SHOULD BE SO STAGGERED THAT NO LAP JOINT LIES ABOVE ANY OTHER LAP JOINT.

4. WHEN THE INITIATED GRAIN IS ROTATED ONE FULL REVOLUTION THE GRINDING SURFACE SHALL REST FREELY ON A FLAT SURFACE OF UNIFORM GRAIN SIZE WHILE RESTING FREELY ON A FLAT SURFACE OF UNIFORM GRAIN SIZE. THE MAXIMUM PERCENTAGE OF UNINITIATED GRAIN AND GLASS PARTICLES REMOVED FROM THE GRINDING SURFACE SHALL NOT EXCEED .125.

- THICKEST AND THINNEST OVERALL THICKNESS SHALL NOT EXCEED .006. MEASUREMENTS ARE TO BE TAKEN WITHIN 2.0 OF PLACES Y-Y.
- NO SINGLE MEASUREMENT OF THE MAJOR INSIDE DIAMETER OF THE PROPELLANT GRAIN PERFORATION SHALL BE LESS THAN 1.080 (CONSIDER EACH END SEPARATELY) MEASUREMENTS ARE TO BE TAKEN WITHIN 2.0 OF PLACES Y-Y

1. EACH END OF THE INHIBITED GRAIN SHALL BE PERPENDICULAR TO THE BUTTER DIAMETER THROUGH THE GAGING LENGTH, 2-1/8", TO WITHIN .000".
2. IDENTIFICATION MARK PERMITTED WITHIN 3/8" OF THE END OF THE UNINHIBITED GRAIN.
3. WHEN THE INHIBITED GRAIN IS TO BE PROCESSED INTO A PROPELLANT GRAIN BY THE SAME MANUFACTURER, BUTES 5 AND 11 ARE CONSIDERED

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THE MAXIMUM OUTSIDE DIAMETER SHALL NOT BE MORE THAN 2.602 AT ANY POINT.

THE MAXIMUM OUTSIDE DIAMETER SHALL BE NOT LESS THAN 2.568 TAKEN AS AN AVERAGE OF 12 MEASUREMENTS AT THREE PLACES EQUALLY SPACED ALONG THE GEAR AND APPROXIMATELY 90° AT THE GATE THREE PLACES BETWEEN SURFACES X3 AND SURFACE X4. NO SINGLE MEASUREMENT SHALL BE LESS THAN 2.548.

GRAIN INHIBITED

CONFIDENTIAL NO. 10-433 3741113 10-
35003 233AS143

